

**ENVIRONMENTAL MEMORANDUM**

**Red Chris Development Company Ltd.**  
200–580 Hornby Street, Vancouver, BC V6C 3B6

Date: September 18, 2015

Distribution: Red Chris Monitoring Committee

Chantel Quock, Environmental Monitor; Cory Koenig, Environmental Advisor;

From: Mike Polywkan, Environmental Scientist;  
Jack Love, Environmental Superintendent

Re: Red Chris Monitoring Committee Environmental Report Sep 8-18th, 2015

---

**Weather:**

Temperatures range from -3°C to 18°C. Freezing temperatures most mornings with many sunny periods in the afternoons. It snowed and hailed the afternoon of Sep 13<sup>th</sup>. Cloud cover hovering around 50% most days during this timeframe.

**General Activities:**

- New haul road construction continues near the 23 km section of the existing haul road and the Rock Storage Area (RSA).
- Drilling and blasting in the pit, mostly occurring in the 1500 zone.
- North Starter Dam (NSD) construction has ceased until next season
- Saddle Dam construction continues near the 5.5km section of the tailings impoundment access road.
- Test pits continue to be dug in North TIA for next years' dam construction goals including cost effectiveness of transportation of soils.
- Diane Howe, Deputy Chief Inspector, Jennifer McConnachie and Liz Murphy (both reclamation inspectors) and Brenda Bailey, Geochemist with the Ministry of Energy and Mines were on site September 14<sup>th</sup> and 15<sup>th</sup> for an inspection. No non-compliances were verbalized during the inspection some recommendations are anticipated from the tour.
- Marie Quock, Maggie Dennis, Jody Payne, Jolene Louie, Fabian Quock, Carol Quock the Iskut Band Chief, Deputy Chief and Council Members toured the Mine Site on September 15<sup>th</sup>.
- Rob Marsland and Patrick Hudson were on-site for the Water Management Workshop on September 16<sup>th</sup>.

**Spills and Incidents:**

- No spills reported or documented during this timeframe.

**Water Management:**

- Monthly surface water samples were collected with additional 4 RSA(Rock storage Areas) sites collected as well.
- Bi weekly samples have been collected at the tailings pond barge, weirs 2 and 3, and W69.
- Monthly drinking water samples collected.
- Collected remaining monitoring well samples for Quarterly sampling.
- RCMC meeting produced concerns relating to surface water sampling site safety issues and determination of importance.
- Completed bi-annual inspections of all pipelines on site.
- Ditching around the spillway of the NRDD was done to help keep out outside water, not of the reclaim pond, from entering the spillway and flowing through the weir.

**Waste Management:**

- Chief Mines' Inspector complemented our onsite efforts relating to the General Waste Areas' organization, separation and cleanliness. It is important that we continue to set solid examples to each

employee and department on site, ensuring the waste management communications and understanding of on-site procedures are practiced regularly.

-Recognition to be mentioned to the north dam construction contractor and Mine maintenance Foreman for their leading efforts in Waste management solutions on site.

- Inspected fueling stations at TIA fueling station, 22km and tuck-shop areas and recommended improvements to maintenance crews before satisfactory approval granted by the environmental department.
- GFL arrived on sept. 15<sup>th</sup> and collected approx. 14,000L from the used oil vats and various containers at erection pad.  
GFL collected waste containers and bins September 17th.
- On site drinking water wells permitting being finalized by Northern Health for the Camp, Truckshop, MILL and Crusher water systems.

**Training:**

- Bear Awareness course was presented to approximately 90% of all employees on site.

**Reclamation:**

- Seeding placed around NRDD ditching/outflow area
- ESC and seed proposed to be added to the east side NRDD access road.

**Wildlife:**

- Many moose have been spotted around the pit area, access road and TIA sections throughout this time period.
- Spruce and ruffed grouse spotted along Ealue lake road.



NRDD ditching is completed and seeded, ready for next summers' runoff.



Marie Quock, Maggie Dennis, Jody Payne, Jolene Louie and Carol Quock pose in front of a 793 Haul Truck





W72 Lagoon sampling site was close to an active moose trail with a visitor.



Potential drinking water wells to be used on site.





Taking water samples and parameters at W8-Thurstons' trickle.



**TAKE BETTER PICTURE!!**





Pit sump is at one of the lowest levels in September.





W76 crusher sump sampling site near the start of the conveyor and crusher.



Site wide bi-annual pipe inspection completed for September.





Digging test pits to determine usable soil type for next years' dam construction.





Bear Awareness course conducted at the truck shop on safety sunday.



Bear Awareness conducted for the office staff.

